**11.2 continued: Adding and Subtracting Radicals**

**Goals: \***Add radicals

 **\***Subtract radicals

**Radicals are like terms when:**

**Add or subtract:**

**Ex:** $4\sqrt{10}+\sqrt{13}-9\sqrt{10}$ **Ex:** $5\sqrt{3}+\sqrt{48}$

**Ex:** $7\sqrt{14}+\sqrt{21}-4\sqrt{14}$ **Ex:** $2\sqrt{7}+3\sqrt{63}$

**Ex:** $2\sqrt{7}+\sqrt{28}$

**Multiply:**

**Ex:** $\sqrt{5}\left(4-\sqrt{20}\right)$ **Ex:** $\sqrt{3}\left(2+\sqrt{12}\right)$

**Ex:** $\left(\sqrt{7}+\sqrt{2}\right)\left(\sqrt{7}-3\sqrt{2}\right)$ **Ex:** $\left(\sqrt{2}+\sqrt{5}\right)\left(\sqrt{2}-3\sqrt{5}\right)$